

WHAT IS CLAIMED IS:

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- 1 1. A connection scheduling method comprising the steps of:
2 determining if a job is available for scheduling;
3 determining, in response to said step of determining if said job is available, if
4 a session is available, wherein said session is included in a pool of sessions, said pool
5 of sessions having a preselected one of a set of priority levels corresponding to a
6 priority level of said job and wherein said session effects an execution of said job; and
7 launching said session to effect said execution of said job, if said session is
8 available.

- 1 Sub 2. The method of claim 1 wherein said session comprises an thread.
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- 1 3. The method of claim 1 further comprising the step of creating a connection to
2 a target system for said execution of said job.

- 1 4. The method of claim 3 further comprising the step of determining if said
2 connection is an existing connection, and wherein said step of creating said
3 connection is performed if said connection is not an existing connection.

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- 1 5. The method of claim 1 further comprising a step of launching an error
2 handling thread in response to an error condition, said error handling thread releasing
3 said session.
- 1 6. The method of claim 5 further comprising the step of changing value of a job
2 state from a first value to a second value in response to said launching of said error
3 handling thread.
- 1 7. The method of claim 6 wherein said first value signals that said job is
2 available for scheduling.
- 1 8. The method of claim 1 further comprising the step of retrying said steps of
2 determining if a job is available for scheduling, determining if a session is available,
3 and launching said session in response to an error condition.
- 1 9. The method of claim 8 wherein said step of retrying is repeated until a
2 predetermined time interval has elapsed.
- 1 10. The method of claim 9 further comprising the step of registering a callback
2 method in response to an expiry of said predetermined time interval.

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11. The method of claim 10 wherein said steps of determining if a job is available for scheduling, determining if a session is available, and launching said session are performed in response to an invoking of said callback method by a target system, said target system for execution of said job.

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- 1 12. A data processing system for connection scheduling comprising:
2 circuitry operable for determining if a job is available for scheduling;
3 circuitry operable for determining, in response to said circuitry operable for
4 determining if said job is available, if a session is available, wherein said session is
5 included in a pool of sessions, said pool of sessions having a preselected one of a set
6 of priority levels corresponding to a priority level of said job and wherein said session
7 effects an execution of said job; and
8 circuitry operable for launching said session to effect said execution of said
9 job, if said session is available.

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- 1 13. The system of claim 12 wherein said session comprises an thread.

- 1 14. The system of claim 12 further comprising circuitry operable for creating a
2 connection to a target system for said execution of said job.

- 1 15. The system of claim 14 further comprising circuitry operable for determining
2 if said connection is an existing connection, and wherein said circuitry operable for
3 creating said connection is operated if said connection is not an existing connection.

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1 16. The system of claim 12 further comprising circuitry operable for launching an
2 error handling thread in response to an error condition, said error handling thread
3 releasing said session.

1 17. The system of claim 16 further comprising circuitry operable for changing
2 value of a job state from a first value to a second value in response to said launching
3 of said error handling thread.

1 18. The system of claim 17 wherein said first value signals that said job is
2 available for scheduling.

1 19. The system of claim 12 further comprising circuitry operable for retrying said
2 steps of determining if a job is available for scheduling, determining if a session is
3 available, and launching said session in response to an error condition.

1 20. The system of claim 19 wherein said circuitry operable for retrying is
2 operated until a predetermined time interval has elapsed.

1 21. The system of claim 20 further comprising circuitry operable for registering a
2 callback method in response to an expiry of said predetermined time interval.

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22. The system of claim 21 wherein said circuitry operable for determining if a job is available for scheduling, determining if a session is available, and launching said session are operated in response to an invoking of said callback method by a target system, said target system for execution of said job.

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- 1 23. A computer program product embodied in a machine readable storage
2 medium, the program product for job scheduling comprising instructions for:
3 determining if a job is available for scheduling;
4 determining, in response to said instructions for determining if said job is
5 available, if a session is available, wherein said session is included in a pool of
6 sessions, said pool of sessions having a preselected one of a set of priority levels
7 corresponding to a priority level of said job and wherein said session effects an
8 execution of said job; and
9 launching said session to effect said execution of said job, if said session is
10 available.
- 1 24. The program product of claim 23 wherein said session comprises an thread.
- 1 25. The program product of claim 23 further comprising instructions for creating a
2 connection to a target system for said execution of said job.
- 1 26. The program product of claim 25 further comprising instructions for
2 determining if said connection is an existing connection, and wherein said
3 instructions for creating said connection are performed if said connection is not an
4 existing connection.

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27. The program product of claim 23 further comprising instructions for launching an error handling thread in response to an error condition, said error handling thread releasing said session.

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28. The program product of claim 27 further comprising instructions for changing value of a job state from a first value to a second value in response to said launching of said error handling thread.

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29. The program product of claim 28 wherein said first value signals that said job is available for scheduling.

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30. The program product of claim 29 further comprising programming for retrying said steps of determining if a job is available for scheduling, determining if a session is available, and launching said session in response to an error condition.

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31. The program product of claim 30 wherein said instructions for retrying are repeated until a predetermined time interval has elapsed.

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32. The program product of claim 31 further comprising programming for registering a callback method in response to an expiry of said predetermined time interval.

1 33. The program product of claim 32 wherein said instructions for determining if
2 a job is available for scheduling, determining if a session is available, and launching
3 said session are executed in response to an invoking of said callback method by a
4 target system, said target system for execution said job.